

REMARKS

Reconsideration of the application in view of the above amendments and the following remarks is respectfully requested.

The following are applicants notes taken during a telephone conversation with Examiner Examiner Jason Phang dated 9/20/05.

Examiner will not lift the finality of rejection in action 7/19/05.

Examiner reads Goto (US 6,196,482) figures 1 and 2 as having an inner casement consisting of parts 7, 9, 10, 11, and 3.

Examiner reads Goto having an outer casement consisting of parts 6 and un-numbered parts on top and bottom contacting part 6.

Examiner states that, in the drawing of figure 1 on the left at the position of the arrowhead of line 15a, there is pressurized propellant fluid, and that the fluid contacts "an inner surface" of part 6, and thus of the outer casement, and the nozzle of part 3. If the nozzle is considered part of the inner casing, the pressure clearly contacts the "outer" surface" of the nozzle."

Applicant states that, in Goto, the outer casing has also ports for introducing a pressurized fluid. Examiner has chosen to define a surface of a drilled hole in the outside wall of the "outer casing" as being "an inner surface" of the outer casing.

The question of what is "inside" a casing and what is "outside" is arguable. In the present invention, the insides and outsides of the two casements are clear, since the outer casement contains (inside) a pressurized volume, and various ports which lead through the outer casement walls to feed the pressurized fluid lead from the unpressurized "outside" to the pressurized "inside" of the outer casing and through a duct to the holes in the inner casing.. (Note that the "inside" of the inner casing is clearly at much less pressure than the "outside" of the inner casing, which is at the same pressure as the "inside" of the outer casing.)

To take Examiner's position to the extreme, a fluid feedthrough welded to the outside of a water tank would be welded to an "inside surface" of the tank.

31 In Goto, there is no suggestion that part 6 directly contacts the propellant fluid at the
32 position indicated. Some means of leading in the gas is necessary. One of skill in the art would
33 assume that a pressurized pipe and gasket is used to seal the incoming tube against the nozzle
34 (because the nozzle must be easily and frequently changed).

35 The inside of the outer casing in Goto would be at the same pressure as the inside of the
36 inner casing, which is much less pressure than the propellant gas pressure. (The fluid flows at
37 high velocity through the nozzle, directly into the inside of the inner chamber, and, as is well
38 known, for a flowing fluid the enthalpy, $H = P + \frac{1}{2} \rho v^2$, remains constant. The higher the
39 gas velocity, the lower the gas pressure.)

40 Applicant submits, under protest, an amendment to claim 1 adding a limitation of a duct
41 (supported by the specification (p. 6 line 4), and drawings. Applicant also adds new claims to
42 define the invention more precisely. Applicant would like to make an appointment with
43 Examiner for a further telephone conversation to clarify the above issues further, and to discuss
44 the proposed claim amendment above.

Claims 1-21 are pending in this application. Claim 1 has been amended. Claims 27 and 28 have been added. Since none of the art cited shows or suggests

"the inner casing having at least one first inlet port for introducing a propellant fluid from a pressurized duct formed by at least one inside wall of the outer casing and at least one outside wall of the inner casing, the propellant fluid fed through a wall of the outer casing into the pressurized duct, and thence from the pressurized duct through the at least one first inlet port into the inner casing," claim 1 (as amended) is allowable on 35 U.S.C. 102 and 103 grounds. Claims dependent on claim 1 are likewise allowable. Claims 2-21 and 28-29 are separately inventive over their parent claims, and are also allowable on grounds of novelty.

A Request for Continued Examination (RCE) under 37 CFR 1.114 is respectfully requested by the attached form.

An additional fee of \$790 is required. The required fees and any insufficiency or overage (except issue fees) may be debited or credited to deposit account 08/2240. A signed deposit account authorization is on file for this case.

On the basis of the above amendments and remarks, reconsideration of this application and its early allowance is respectfully requested.

CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 CFR 1.8(a) and (b), 37CFR 1.86(f)-

I hereby certify that the following attached correspondence comprising Response and Amendment, and RCE, is being sent by facsimile transmission to FAX NUMBER 571-273-1800 on September 22, 2005.

Respectfully,



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